

Status: Path 1 of [Dialog Information Services via Modem]

Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
***** HHHHHHHH SSSSSSS?
Status: Signing onto Dialog

ENTER PASSWORD:
***** HHHHHHHH SSSSSSS? *****
Welcome to DIALOG
Status: Connected

Dialog level 04.02.00D

Last logoff: 06apr04 16:22:06
Logon file001 08apr04 09:25:28
*** ANNOUNCEMENT ***

--File 654 - US published applications from March 15, 2001 to the present are now online. Please see HELP NEWS 654 for details.

--File 581 - The 2003 annual reload of Population Demographics is complete. Please see Help News581 for details.

--File 990 - NewsRoom now contains February 2003 to current records.
File 992 - NewsRoom 2003 archive has been newly created and contains records from January 2003. The oldest months's records roll out of File 990 and into File 992 on the first weekend of each month.
To search all 2003 records BEGIN 990, 992, or B NEWS2003, a new OneSearch category.

--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.

--SourceOne patents are now delivered to your email inbox as PDF replacing TIFF delivery. See HELP SOURCE1 for more information.

--Important news for public and academic libraries. See HELP LIBRARY for more information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

NEW FILES RELEASED
***AeroBase (File 104)
***DIOGENES: Adverse Drug Events Database (File 181)
***World News Connection (File 985)
***Dialog NewsRoom - 2003 Archive (File 992)
***TRADEMARKSCAN-Czech Republic (File 680)
***TRADEMARKSCAN-Hungary (File 681)
***TRADEMARKSCAN-Poland (File 682)

UPDATING RESUMED

RELOADED
***Medline (Files 154-155)
***Population Demographics -(File 581)
***CLAIMS Citation (Files 220-222)

REMOVED

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HIGHLIGHT set on as '**'

*

*

* ALL NEW CURRENT YEAR RANGES HAVE BEEN * * *

* * * INSTALLED * * *

File 1:ERIC 1966-2004/Mar 31
(c) format only 2004 The Dialog Corporation

Set Items Description

--- -----

Cost is in DialUnits

?b 155, 5, 73

08apr04 09:25:36 User259876 Session D608.1
\$0.32 0.092 DialUnits File1
\$0.32 Estimated cost File1
\$0.03 TELNET
\$0.35 Estimated cost this search
\$0.35 Estimated total session cost 0.092 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155: MEDLINE(R) 1966-2004/Apr W1

(c) format only 2004 The Dialog Corp.

*File 155: Medline has been reloaded. Accession numbers

have changed. Please see HELP NEWS 154 for details.

File 5:Biosis Previews(R) 1969-2004/Apr W1
(c) 2004 BIOSIS

File 73:EMBASE 1974-2004/Mar W4
(c) 2004 Elsevier Science B.V.

Set Items Description

--- -----

?s cartilage (s) (repair or repairing or forming)

114995 CARTILAGE
267434 REPAIR
7019 REPAIRING
309983 FORMING
S1 6034 CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)
?s (brachyury or (T-box) or (T (w) box))
1209 BRACHYURY
15 T-BOX
4580136 T
67694 BOX
1438 T(W) BOX
S2 2248 (BRACHYURY OR (T-BOX) OR (T (W) BOX))

?s s1 and s2

6034 S1
2248 S2

S3 8 S1 AND S2

?rd

...completed examining records
S4 3 RD (unique items)

?t s4/3,k/all

4/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

15905138 PMID: 14871240

Tomorrow's skeleton staff: mesenchymal stem cells and the *repair* of bone and *cartilage*.

Otto W R; Rao J

Histopathology Unit, Cancer Research UK, London Research Institute, London, UK. bill.otto@cancer.org.uk

Cell proliferation (England) Feb 2004, 37 (1) p97-110, ISSN 0960-7722 Journal Code: 9105195

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Tomorrow's skeleton staff: mesenchymal stem cells and the *repair* of bone and *cartilage*.

... with Menin and Shh are important, as are the modulatory roles of Notch-1 and PPARgamma. Control of chondrocytic differentiation is effected by interplay of *Brachyury*, BMP-4 and TGFbeta3. Smads 1, 4 and 5 also play a role in these phenotypic expressions. The ability to culture MSC has led to their use in tissue *repair*, both as precursor and differentiated cell substitutes, and with successful animal models of bone and *cartilage* *repair* using MSC, their clinical use is accelerating. However, MSC also suppress some T-cell functions in transplanted hosts, and could facilitate tumour growth, so a...

4/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

13782890 PMID: 9490412

Three neural tubes in mouse embryos with mutations in the *T-box* gene Tbx6.**

Chapman D L; Papaioannou V E

Department of Genetics and Development, College of Physicians and Surgeons of Columbia University, New York, New York 10032, USA.

Nature (ENGLAND) Feb 12 1998, 391 (6668) p695-7, ISSN 0028-0836

Journal Code: 0410462

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Three neural tubes in mouse embryos with mutations in the *T-box* gene Tbx6.**

Somites, segmented mesodermal units of the vertebrate embryo, are the precursors of adult skeletal muscle, bone and *cartilage*. During embryogenesis, somite progenitor cells ingress through the primitive streak, move laterally to a paraxial position (alongside the body axis) and segment into epithelial somites. Little is known about how this paraxial mesoderm tissue is specified. We have previously described a mouse *T**-box* gene, Tbx6, which codes for a putative DNA-binding protein. The embryonic pattern of expression of Tbx6 in somite precursor cells suggests that this gene...

... somites form in the neck region of mutant embryos, whereas more posterior paraxial tissue does not form somites but instead differentiates along a neural pathway, *forming* neural-tube-like structures that flank the axial neural tube. These paraxial tubes show dorsal/ventral patterning that is characteristic of the neural tube, and...

4/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

13230372 PMID: 8898231

A role for cadherins in tissue formation.

Larue L; Antos C; Butz S; Huber O; Delmas V; Dominis M; Kemler R
Max-Planck Institut fur Immunbiologie, Freiburg, Germany.
Development (Cambridge, England) (ENGLAND) Oct 1996, 122 (10)
p3185-94, ISSN 0950-1991 Journal Code: 8701744

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed.

... E-cadherin or N-cadherin driven by a constitutive promoter. The presence (or absence) of E-cadherin regulates the expression of the transcription factor T-*brachyury*, indicating that cadherins play a role in linking cell surface receptors and gene expression. Comparative analysis of the parental and the genetically altered ES cell...

... tissues. While differentiating E-cadherin--/- ES cells are still able to express various early and late differentiation markers, they show a clear-cut deficiency in *forming* organized structures. This phenotype can be rescued by constitutive expression of E-cadherin, which results exclusively in formation of epithelia. In contrast, rescue transfectants expressing N-cadherin show no epithelial structures, instead *forming* neuroepithelium and *cartilage*. These results provide the first evidence that specific cadherins directly stimulate differentiation into certain types of tissues.

Descriptors: Cadherins--metabolism--ME; *Embryo and Fetal Development--physiology--PH; *Signal Transduction--physiology--PH; **T-*Box* Domain Proteins

Chemical Name: *Brachyury* protein; Cadherins; DNA-Binding Proteins; Fetal Proteins; Recombinant Fusion Proteins; *T-*Box* Domain Proteins; RNA ?s

>>>Null command ignored

?ds

Set	Items	Description
S1	6034	CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)
S2	2248	(BRACHYURY OR (T-BOX) OR (T (W) BOX))
S3	8	S1 AND S2
S4	3	RD (unique items)
?s (Brachyury)	(s) (cartilage or (mesenchymal (w) stem (w) cell))	
	1209	BRACHYURY
	114995	CARTILAGE
	43848	MESENCHYMAL
	337354	STEM
.	7531028	CELL
	840	MESENCHYMAL (W) STEM (W) CELL
S5	10	(BRACHYURY) (S) (CARTILAGE OR (MESENCHYMAL (W) STEM (W) CELL))

?rd

...completed examining records

S6 5 RD (unique items)

?t s6/3,k/all

6/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

15905138 PMID: 14871240

Tomorrow's skeleton staff: mesenchymal stem cells and the repair of bone and cartilage.

Otto W R; Rao J

Histopathology Unit, Cancer Research UK, London Research Institute, London, UK. bill.otto@cancer.org.uk

Cell proliferation (England) Feb 2004, 37 (1) p97-110, ISSN 0960-7722 Journal Code: 9105195

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM
Record type: Completed

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6/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

13230372 PMID: 8898231

A role for cadherins in tissue formation.

Larue L; Antos C; Butz S; Huber O; Delmas V; Dominis M; Kemler R
Max-Planck Institut fur Immunbiologie, Freiburg, Germany.
Development (Cambridge, England) (ENGLAND) Oct 1996, 122 (10)
p3185-94, ISSN 0950-1991 Journal Code: 8701744

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... E-cadherin or N-cadherin driven by a constitutive promoter. The presence (or absence) of E-cadherin regulates the expression of the transcription factor T-*brachyury*, indicating that cadherins play a role in linking cell surface receptors and gene expression. Comparative analysis of the parental and the genetically altered ES cell...

... of E-cadherin, which results exclusively in formation of epithelia. In contrast, rescue transfecants expressing N-cadherin show no epithelial structures, instead forming neuroepithelium and *cartilage*. These results provide the first evidence that specific cadherins directly stimulate differentiation into certain types of tissues.

6/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2004 The Dialog Corp. All rts. reserv.

11690653 PMID: 11865033

The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2.

Hoffmann Andrea; Czichos Stefan; Kaps Christian; Bachner Dietmar; Mayer Hubert; Kurkalli Basan Gowda; Zilberman Yoram; Turgeman Gadi; Pelled Gadi; Gross Gerhard; Gazit Dan

Osteo-Angiogenesis Group, Gesellschaft fur Biotechnologische Forschung (GBF), Mascheroder Weg 1, 38124 Braunschweig, Germany.

Journal of cell science (England) Feb 15 2002, 115 (Pt 4) p769-81,
ISSN 0021-9533 Journal Code: 0052457

Erratum in J Cell Sci 2002 Jun 15;115(Pt 12) 2613

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2.

... chondrogenic lineage in this cell line. Screening for transcription factors exhibiting a chondrogenic capacity in C3H10T1/2 identified that the T-box containing transcription factor *Brachyury* is upregulated by

FGFR3-mediated signaling. Forced expression of *Brachyury* in C3H10T1/2 was sufficient for differentiation into the chondrogenic lineage in vitro and in vivo after transplantation into muscle. A dominant-negative variant of *Brachyury*, consisting of its DNA-binding domain (T-box), interferes with BMP2-mediated *cartilage* formation. These studies indicate that BMP-initiated FGF-signaling induces a novel type of transcription factor for the onset of chondrogenesis in a *mesenchymal* *stem* *cell* line. A potential role for this T-box factor in skeletogenesis is further delineated from its expression profile in various skeletal elements such as intervertebral...

6/3,K/4 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013906085 BIOSIS NO.: 200200499596
Correction of Previews 200200220743. The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2. Correction of author names.)
AUTHOR: Hoffmann Andrea; Czichos Stefan; Kaps Christian; Baechner Dietmar; Mayer Hubert; Kurkalli Basan Gowda; Zilberman Yoram; Turgeman Gadi; Pelled Gadi; Gross Gerhard (Reprint); Gazit Dan
AUTHOR ADDRESS: Osteo-Angiogenesis Group, Gesellschaft fuer Biotechnologische Forschung (GBF), Mascheroder Weg 1, 38124, Braunschweig, Germany**Germany
JOURNAL: Journal of Cell Science 115 (12): p2613 June 15, 2002 2002
MEDIUM: print
ISSN: 0021-9533
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Correction of Previews 200200220743. The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2. Correction of author names.)

6/3,K/5 (Item 1 from file: 73)
DIALOG(R) File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

11685495 EMBASE No: 2002258466
Erratum: The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2 (Journal of Cell Science vol. 115 (769-781))
Hoffmann A.; Czichos S.; Kaps C.; Bachner D.; Mayer H.; Kurakalli B.G.; Zilberman Y.; Turgeman G.; Pelled G.; Gross G.; Gazit D.
G. Gross, Osteo-Angiogenesis Group, GBF, Mascheroder Weg 1, 38124 Braunschweig Germany
AUTHOR EMAIL: ggr@gbf.de
Journal of Cell Science (J. CELL SCI.) (United Kingdom) 15 JUN 2002, 115/12 (2613)
CODEN: JNCSA ISSN: 0021-9533
DOCUMENT TYPE: Journal ; Erratum
LANGUAGE: ENGLISH

Erratum: The T-box transcription factor *Brachyury* mediates *cartilage* development in *mesenchymal* *stem* *cell* line C3H10T1/2 (Journal of Cell Science vol. 115 (769-781))

?ds

Set	Items	Description
S1	6034	CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)
S2	2248	(BRACHYURY OR (T-BOX) OR (T (W) BOX))
S3	8	S1 AND S2
S4	3	RD (unique items)

S5 10 (BRACHYURY) (S) (CARTILAGE OR (MESENCHYMAL (W) STEM (W) CE-
LL))

S6 5 RD (unique items)

?s (Brachyury) (s) (chondrogenic or MSCs)

1209 BRACHYURY

3085 CHONDROGENIC

1065 MSCS

S7 3 (BRACHYURY) (S) (CHONDROGENIC OR MSCS)

?rd

...completed examining records

S8 1 RD (unique items)

?t s8/3,k/all

8/3,K/1 . (Item 1 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

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11690653 PMID: 11865033

**The T-box transcription factor Brachyury mediates cartilage development
in mesenchymal stem cell line C3H10T1/2.**

Hoffmann Andrea; Czichos Stefan; Kaps Christian; Bachner Dietmar; Mayer Hubert; Kurkalli Basan Gowda; Zilberman Yoram; Turgeman Gadi; Pelled Gadi; Gross Gerhard; Gazit Dan

Osteo-Angiogenesis Group, Gesellschaft fur Biotechnologische Forschung (GBF), Mascheroder Weg 1, 38124 Braunschweig, Germany.

Journal of cell science (England) Feb 15 2002, 115 (Pt 4) p769-81,

ISSN 0021-9533 Journal Code: 0052457

Erratum in J Cell Sci 2002 Jun 15;115(Pt 12) 2613

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The BMP2-dependent onset of osteo/*chondrogenic* differentiation in the acknowledged pluripotent murine mesenchymal stem cell line (C3H10T1/2) is accompanied by the immediate upregulation of Fibroblast Growth Factor Receptor 3 (FGFR3) and a delayed response by FGFR2. Forced expression of FGFR3 in C3H10T1/2 is sufficient for *chondrogenic* differentiation, indicating an important role for FGF-signaling during the manifestation of the *chondrogenic* lineage in this cell line. Screening for transcription factors exhibiting a *chondrogenic* capacity in C3H10T1/2 identified that the T-box containing transcription factor *Brachyury* is upregulated by FGFR3-mediated signaling. Forced expression of *Brachyury* in C3H10T1/2 was sufficient for differentiation into the *chondrogenic* lineage in vitro and in vivo after transplantation into muscle. A dominant-negative variant of *Brachyury*, consisting of its DNA-binding domain (T-box), interferes with BMP2-mediated cartilage formation. These studies indicate that BMP-initiated FGF-signaling induces a novel...

?ds

Set Items Description

S1 6034 CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)

S2 2248 (BRACHYURY OR (T-BOX) OR (T (W) BOX))

S3 8 S1 AND S2

S4 3 RD (unique items)

S5 10 (BRACHYURY) (S) (CARTILAGE OR (MESENCHYMAL (W) STEM (W) CE-
LL))

S6 5 RD (unique items)

S7 3 (BRACHYURY) (S) (CHONDROGENIC OR MSCS)

S8 1 RD (unique items)

?s C3H10T1/2

S9 2 C3H10T1/2

?rd

...completed examining records

S10 2 RD (unique items)

?t s10/3,k/all

10/3,K/1 (Item 1 from file: 5)
DIALOG(R) File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0010425560 BIOSIS NO.: 199699059620

Composition of polyphenols in fresh tea leaves and associations of their oxygen-radical-absorbing capacity with antiproliferative actions in fibroblast cells

AUTHOR: Lin Yu-Li; Juan I-Ming; Chen Ying-Ling; Liang Yu-Chih; Lin Jen-Kun
(Reprint)

AUTHOR ADDRESS: Inst. Biochem., Coll. Med., Natl. Taiwan Univ., Taipei,
Taiwan**Taiwan

JOURNAL: Journal of Agricultural and Food Chemistry 44 (6): p1387-1394
1996 1996

ISSN: 0021-8561

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

DESCRIPTORS:

MISCELLANEOUS TERMS: ...*C3H10T1/2*

10/3,K/2 (Item 2 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0010299790 BIOSIS NO.: 199698767623

Increased prostaglandin H synthase activity in H-ras-transfected cells

AUTHOR: Teegarden D; Xu X; Burgess J R

AUTHOR ADDRESS: Dep. Foods Nutrition, Purdue Univ., West Lafayette, IN
47907, USA**USA

JOURNAL: FASEB Journal 10 (3): pA755 1996 1996

CONFERENCE/MEETING: Experimental Biology 96, Part II Washington, D.C., USA
April 14-17, 1996; 19960414

ISSN: 0892-6638

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MISCELLANEOUS TERMS: ...*C3H10T1/2*

?ds

Set	Items	Description
S1	6034	CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)
S2	2248	(BRACHYURY OR (T-BOX) OR (T (W) BOX))
S3	8	S1 AND S2
S4	3	RD (unique items)
S5	10	(BRACHYURY) (S) (CARTILAGE OR (MESENCHYMAL (W) STEM (W) CE- LL))
S6	5	RD (unique items)
S7	3	(BRACHYURY) (S) (CHONDROGENIC OR MSCS)
S8	1	RD (unique items)
S9	2	C3H10T1/2
S10	2	RD (unique items)

?s (mesenchymal (w) stem (w) cell (w) line?)

43848 MESENCHYMAL

337354 STEM

7531028 CELL

1939599 LINE?

S11 43 (MESENCHYMAL (W) STEM (W) CELL (W) LINE?)

?rd

...completed examining records

S12 22 RD (unique items)

?t s12/3,k/all

12/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

15314379 PMID: 14635186

BMP treatment of C3H10T1/2 mesenchymal stem cells induces both chondrogenesis and osteogenesis.

Shea Colleen M; Edgar Cory M; Einhorn Thomas A; Gerstenfeld Louis C
Department of Orthopaedic Surgery, Orthopaedic Research Laboratory,
Boston University Medical Center, Boston, Massachusetts, USA.

Journal of cellular biochemistry (United States) Dec 15 2003, 90 (6)

p1112-27, ISSN 0730-2312 Journal Code: 8205768

Contract/Grant No.: AR 47045; AR; NIAMS; DE00275; DE; NIDCR

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: In Process

The molecular mechanisms by which bone morphogenetic proteins (BMPs) promote skeletal cell differentiation were investigated in the murine *mesenchymal* *stem* *cell* *line* C3H10T1/2. Both BMP-7 and BMP-2 induced C3H10T1/2 cells to undergo a sequential pattern of chondrogenic followed by osteogenic differentiation that was...

... phenomenon was that BMP-7 activity could be further enhanced twofold by growing the cells in a more nutrient-rich media. In summary, the murine *mesenchymal* *stem* *cell* *line* C3H10T1/2 was induced to follow an endochondral sequence of chondrogenic and osteogenic differentiation dependent on both dose and continual presence of BMP-7 and...

12/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

14475630 PMID: 10475242

Use of a PPAR gamma-specific monoclonal antibody to demonstrate thiazolidinediones induce PPAR gamma receptor expression in vitro.

Su J L; Winegar D A; Wisely G B; Sigel C S; Hull-Ryde E A

Department of Molecular Sciences, Glaxo Wellcome Research and Development, Research Triangle Park, NC 27709, USA.

Hybridoma (UNITED STATES) Jun 1999, 18 (3) p273-80, ISSN 0272-457X

Journal Code: 8202424

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... we report the characterization of a PPARgamma specific monoclonal antibody (MAb), PgammA53.25, and its use to monitor PPARgamma expression in the noncommitted pluripotent murine *mesenchymal* *stem* *cell* *line*, C3H10T1/2, treated with TZDs. MAb PgammA53.25 was raised against a region in the N-terminal domain of human PPARgamma shared by splice variants...

12/3,K/3 (Item 3 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

13455931 PMID: 9138089

Combination of osteoinductive bone proteins differentiates mesenchymal C3H/10T1/2 cells specifically to the cartilage lineage.

Atkinson B L; Fantle K S; Benedict J J; Huffer W E; Gutierrez-Hartmann A

Department of Medicine, University of Colorado Health Sciences Center, Denver 80262, USA.

Journal of cellular biochemistry (UNITED STATES) Jun 1 1997, 65 (3)

p325-39, ISSN 0730-2312 Journal Code: 8205768

Contract/Grant No.: N01-HD-6-2925; HD; NICHD

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... formation involves the condensation of mesenchymal stem cells and a series of maturation steps that ultimately results in the mineralized hypertrophic chondrocyte. The embryonic, murine, *mesenchymal* *stem* *cell* *line*, C3H/10T1/2, is pluripotent; exposure to azacytidine or to bone morphogenetic protein-2 or -4 results in low rates of differentiation to three mesengenic...

12/3,K/4 (Item 4 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

12644236 PMID: 7768881

An antidiabetic thiazolidinedione is a high affinity ligand for peroxisome proliferator-activated receptor gamma (PPAR gamma).

Lehmann J M; Moore L B; Smith-Oliver T A; Wilkison W O; Willson T M; Kliwera S A

Department of Cellular Biochemistry, Glaxo Research Institute, Research Triangle Park, North Carolina 27709, USA.

Journal of biological chemistry (UNITED STATES) Jun 2 1995, 270 (22) p12953-6, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... increase the insulin sensitivity of target tissues in animal models of non-insulin-dependent diabetes mellitus. In vitro, thiazolidinediones promote adipocyte differentiation of preadipocyte and *mesenchymal* *stem* *cell* *lines*; however, the molecular basis for this adipogenic effect has remained unclear. Here, we report that thiazolidinediones are potent and selective activators of peroxisome proliferator-activated...

12/3,K/5 (Item 5 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11951122 PMID: 12160840

GATA transcription in a small rhodamine 123(low)CD34(+) subpopulation of a peripheral blood-derived CD34(-)CD105(+) mesenchymal cell line.

Conrad Claudius; Gottgens Berthold; Kinston Sarah; Ellwart Joachim; Huss Ralf

Institute of Pathology, University of Munich, Germany.

Experimental hematology (Netherlands) Aug 2002, 30 (8) p887-95, ISSN 0301-472X Journal Code: 0402313

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... glial cells could be shown from the entire CD34(-)CD105(+) cell population. CONCLUSIONS: The findings provide evidence that it is possible to isolate CD34(-)CD105(+) *mesenchymal* *stem* *cell* *lines* from human peripheral blood cells that contain a small subpopulation of CD34(+) and GATA-transcribing cells. Those cells are potential hematopoietic progenitors and can be...

12/3,K/6 (Item 6 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11807256 PMID: 11996042

Formation of cartilage matrix proteins by BMP-transfected murine mesenchymal stem cells encapsulated in a novel class of alginates.

Weber M; Steinert A; Jork A; Dimmler A; Thurmer F; Schutze N; Hendrich C; Zimmerman U

Department of Biotechnology, University of Wurzburg, Am Hubland, Biozentrum, Germany.

Biomaterials (England) May 2002, 23 (9) p2003-13, ISSN 0142-9612

Journal Code: 8100316

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Proliferation and differentiation of wild-type, BMP-2 and BMP-4 transfected cells of C3H10T1/2, a mouse *mesenchymal* *stem* *cell* *line* that can differentiate into chondrocytes, were studied under monolayer (2D-) and encapsulation (3D-) conditions. Cells were encapsulated in a novel class of alginate. The alginate...

12/3,K/7 (Item 7 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11690653 PMID: 11865033

The T-box transcription factor Brachyury mediates cartilage development in *mesenchymal* *stem* *cell* *line* C3H10T1/2.

Hoffmann Andrea; Czichos Stefan; Kaps Christian; Bachner Dietmar; Mayer Hubert; Kurkalli Basan Gowda; Zilberman Yoram; Turgeman Gadi; Pelled Gadi; Gross Gerhard; Gazit Dan

Osteo-Angiogenesis Group, Gesellschaft fur Biotechnologische Forschung (GBF), Mascheroder Weg 1, 38124 Braunschweig, Germany.

Journal of cell science (England) Feb 15 2002, 115 (Pt 4) p769-81,

ISSN 0021-9533 Journal Code: 0052457

Erratum in J Cell Sci 2002 Jun 15;115(Pt 12) 2613

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

The T-box transcription factor Brachyury mediates cartilage development in *mesenchymal* *stem* *cell* *line* C3H10T1/2.

The BMP2-dependent onset of osteo/chondrogenic differentiation in the acknowledged pluripotent murine *mesenchymal* *stem* *cell* *line* (C3H10T1/2) is accompanied by the immediate upregulation of Fibroblast Growth Factor Receptor 3 (FGFR3) and a delayed response by FGFR2. Forced expression of FGFR3...

... mediated cartilage formation. These studies indicate that BMP-initiated FGF-signaling induces a novel type of transcription factor for the onset of chondrogenesis in a *mesenchymal* *stem* *cell* *line*. A potential role for this T-box factor in skeletogenesis is further delineated from its expression profile in various skeletal elements such as intervertebral disks...

12/3,K/8 (Item 8 from file: 155)

DIALOG(R) File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

11363233 PMID: 11455125

Impaired intramembranous bone formation during bone repair in the absence of tumor necrosis factor-alpha signaling.

Gerstenfeld L C; Cho T J; Kon T; Aizawa T; Cruceta J; Graves B D; Einhorn

T A

Department of Orthopaedic Surgery, Boston University Medical Center,
Boston, Mass., USA. lgersten@bu.edu
Cells, tissues, organs (Switzerland) 2001, 169 (3) p285-94, ISSN
1422-6405 Journal Code: 100883360

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... set of signals are involved in the recruitment of osteogenic cells during endochondral repair then during intramembranous bone formation. Co-culture of chondrocytes with a *mesenchymal* *stem* *cell* *line* was carried out to examine if chondrocytes themselves produced paracrine factors that promote osteogenic differentiation. These experiments demonstrated that chondrocytes do indeed produce factors that...

12/3,K/9 (Item 9 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

10567838 PMID: 10674402

Prolactin enhances CCAAT enhancer-binding protein-beta (C/EBP beta) and peroxisome proliferator-activated receptor gamma (PPAR gamma) messenger RNA expression and stimulates adipogenic conversion of NIH-3T3 cells.

Nanbu-Wakao R; Fujitani Y; Masuho Y; Muramatu M; Wakao H
Helix Research Institute, Chiba, Japan.

Molecular endocrinology (Baltimore, Md.) (UNITED STATES) Feb 2000, 14 (2) p307-16, ISSN 0888-8809 Journal Code: 8801431

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... and peroxisome proliferator-activated receptor gamma (PPARgamma) play crucial roles in this process. Although ectopic expression of these factors in NIH-3T3 cells, a multipotential *mesenchymal* *stem* *cell* *line*, results in adipogenic conversion, little is known as to hormonal factors that regulate adipogenesis in these cells. In this report we demonstrate that PRL, a...

12/3,K/10 (Item 10 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

09788628 PMID: 8347351

Bone morphogenetic protein-2 causes commitment and differentiation in C3H10T1/2 and 3T3 cells.

Wang E A; Israel D I; Kelly S; Luxenberg D P
Developmental Biology, Genetics Institute, 87 Cambridgepark Drive,
Cambridge, Massachusetts 02140.

Growth factors (Chur, Switzerland) (SWITZERLAND) 1993, 9 (1) p57-71,
ISSN 0897-7194 Journal Code: 9000468

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

C3H10T1/2 cells are an established *mesenchymal* *stem* *cell* *line* which can differentiate into muscle, fat and cartilage cells when treated with azacytidine. Bone morphogenetic protein-2 (BMP-2) caused a dose dependent differentiation of...

12/3,K/11 (Item 11 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

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09670473 PMID: 8385738

Modulation of expression and cell surface binding of members of the transforming growth factor-beta superfamily during retinoic acid-induced osteoblastic differentiation of multipotential mesenchymal cells.

Gazit D; Ebner R; Kahn A J; Deryck R

Department of Growth and Development, University of California, San Francisco 94143-0640.

Molecular endocrinology (Baltimore, Md.) (UNITED STATES) Feb 1993, 7(2) p189-98, ISSN 0888-8809 Journal Code: 8801431

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

We have evaluated the effects of retinoic acid as a differentiating agent on two pluripotential *mesenchymal* *stem* *cell* *lines*, the mouse cell line C3H-10T1/2 (10T1/2), which has the capacity to differentiate in vitro into myoblasts, adipocytes, chondrocytes, and osteoblasts, and the...

12/3,K/12 (Item 12 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

06797369 PMID: 3857629

An initiator of carcinogenesis selectively and stably inhibits stem cell differentiation: a concept that initiation of carcinogenesis involves multiple phases.

Scott R E; Maercklein P B

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) May 1985, 82 (9) p2995-9, ISSN 0027-8424 Journal Code: 7505876

Contract/Grant No.: CA 21722; CA; NCI; CA 28240; CA; NCI

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... initiator of carcinogenesis (i.e., UV irradiation) on proadipocyte stem cell differentiation and proliferation was assayed. In this regard, 3T3 T proadipocytes represent a nontransformed *mesenchymal* *stem* *cell* *line* that possesses the ability to regulate its differentiation at a distinct state in the G1 phase of the cell cycle as well as the ability...

12/3,K/13 (Item 13 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

(c) format only 2004 The Dialog Corp. All rts. reserv.

05847333 PMID: 6176995

Pre-adipocyte determination either by insulin or by 5-azacytidine.

Sager R; Kovac P

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Jan 1982, 79 (2) p480-4, ISSN 0027-8424 Journal Code: 7505876

Contract/Grant No.: GM22874; GM; NIGMS

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

CHEF/18 is a diploid Chinese hamster cell line of embryonic origin, which is fibroblastic in structure, but behaves like a *mesenchymal* *stem* *cell* *line* in its ability to differentiate into adipocytes, myoblasts,

and chondrocytes. With these cells, adipocyte formation has been divided experimentally into two stages: (i) determination of...

12/3,K/14 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014463629 BIOSIS NO.: 200300432348

TGF-beta isoforms stimulate chemotaxis but not cell proliferation in the pluripotent *mesenchymal* *stem* *cell* *line* C3H10T1/2.

AUTHOR: Makhijani N S (Reprint); Bischoff D S (Reprint); Yamaguchi D T (Reprint)

AUTHOR ADDRESS: Research Service, VA Greater Los Angeles Healthcare System, Los Angeles, CA, USA**USA

JOURNAL: Journal of Bone and Mineral Research 17 (Suppl 1): pS430

September 2002 2002

MEDIUM: print

CONFERENCE/MEETING: Twenty-Fourth Annual Meeting of the American Society for Bone and Mineral Research San Antonio, Texas, USA September 20-24, 2002; 20020920

SPONSOR: American Society for Bone and Mineral Research

ISSN: 0884-0431 (ISSN print)

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Citation

LANGUAGE: English

TGF-beta isoforms stimulate chemotaxis but not cell proliferation in the pluripotent *mesenchymal* *stem* *cell* *line* C3H10T1/2.

12/3,K/15 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0014131039 BIOSIS NO.: 200300089758

Oxygen in Culture Influences Phenotype of Stem Cells: The Choice between Skeletal Muscle and Fat.

AUTHOR: Csete Marie E (Reprint); Walikonis Jean (Reprint); Korsnes Sheryl (Reprint); Wold Barbara J (Reprint)

AUTHOR ADDRESS: Anesthesiology, University of Michigan, Ann Arbor, MI, USA **USA

JOURNAL: Anesthesiology Abstracts of Scientific Papers Annual Meeting (2000) : pAbstract No. 514 2002 2002

MEDIUM: cd-rom

CONFERENCE/MEETING: 2000 Annual Meeting of the American Society of Anesthesiologists San Francisco, CA, USA October 16-18, 2000; 20001016

SPONSOR: American Society of Anesthesiologists Inc.

DOCUMENT TYPE: Meeting; Meeting Abstract

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: ignored. We examined the role of oxygen in muscle regeneration and differentiation. Methods: After IRB approval, single adult mouse muscle fibers, adult human myoblasts, or *mesenchymal* *stem* *cell* *lines* were cultured in either 20% or 6% O₂. 20% O₂ represents traditional culture conditions and 6% O₂ approximates physiologic levels of oxygen around skeletal muscle...

12/3,K/16 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013906085 BIOSIS NO.: 200200499596

Correction of Previews 200200220743. The T-box transcription factor Brachyury mediates cartilage development in *mesenchymal* *stem* *cell*

line C3H10T1/2. Correction of author names.)
AUTHOR: Hoffmann Andrea; Czichos Stefan; Kaps Christian; Baechner Dietmar;
Mayer Hubert; Kurkalli Basan Gowda; Zilberman Yoram; Turgeman Gadi;
Pelled Gadi; Gross Gerhard (Reprint); Gazit Dan
AUTHOR ADDRESS: Osteo-Angiogenesis Group, Gesellschaft fuer
Biotechnologische Forschung (GBF), Mascheroder Weg 1, 38124,
Braunschweig, Germany**Germany
JOURNAL: Journal of Cell Science 115 (12): p2613 June 15, 2002 2002
MEDIUM: print
ISSN: 0021-9533
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Correction of Previews 200200220743. The T-box transcription factor
Brachyury mediates cartilage development in *mesenchymal* *stem* *cell*
line C3H10T1/2. Correction of author names.)
DESCRIPTORS:
...ORGANISMS: *mesenchymal* *stem* *cell* *line*

12/3,K/17 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0013558459 BIOSIS NO.: 200200151970
Recovery of placental-derived adherent cells with mesenchymal stem cell characteristics
AUTHOR: Ye Qian (Reprint); Wang Yalin (Reprint); Cioffi Joseph (Reprint);
Khorshidi Manoochehr (Reprint); Magidson Jory (Reprint); Katz Robert
(Reprint); MacIsaac Sarah (Reprint); Hariri Robert (Reprint)
AUTHOR ADDRESS: Anthrogenesis Corporation, Cedar Knolls, NJ, USA**USA
JOURNAL: Blood 98 (11 Part 2): p147b November 16, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of
Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001; 20011207
SPONSOR: American Society of Hematology
ISSN: 0006-4971
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: pathways, these cells exhibited characteristic morphologic and
biochemical changes associated with adipocytes and chondrocytes. These
results are consistent with the properties of bone marrow derived
mesenchymal *stem* *cell* *lines* previously reported. In addition, we
have shown that significant numbers of hematopoietic progenitor cells can
be recovered from the cultivated postpartum placenta. Taken together, our
...

12/3,K/18 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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0013401327 BIOSIS NO.: 200100573166
BMP-7 induces both chondrogenesis and osteogenesis in the C3H10T1/2
mesenchymal *stem* *cell* *line*
AUTHOR: Shea C M (Reprint); Barnes G L; Einhorn T A; Gertenfeld L C
AUTHOR ADDRESS: Department of Periodontology, Harvard School of Dental
Medicine, Boston, MA, USA**USA
JOURNAL: Journal of Bone and Mineral Research 16 (Suppl. 1): pS321
September, 2001 2001
MEDIUM: print
CONFERENCE/MEETING: Twenty-Third Annual Meeting of the American Society for
Bone and Mineral Research Phoenix, Arizona, USA October 12-16, 2001;
20011012

ISSN: 0884-0431
DOCUMENT TYPE: Meeting; Meeting Abstract
RECORD TYPE: Citation
LANGUAGE: English

BMP-7 induces both chondrogenesis and osteogenesis in the C3H10T1/2 *mesenchymal* *stem* *cell* *line*

DESCRIPTORS:

...ORGANISMS: bone morphogenetic protein 4-induced chondrogenesis, bone morphogenetic protein 4-induced osteogenesis, mouse *mesenchymal* *stem* *cell* *line*

12/3,K/19 (Item 6 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2004 BIOSIS. All rts. reserv.

0008468420 BIOSIS NO.: 199344031316

**A differentiation competent renal *mesenchymal* *stem* *cell* *line*:
RSTEM-1**

AUTHOR: Herzlinger Doris
AUTHOR ADDRESS: Dep. Physiol. Biophysics, Cornell Univ. Med. College, New York, N.Y., USA**USA

JOURNAL: Journal of the American Society of Nephrology 3 (4): p1034 1992
CONFERENCE/MEETING: American Society of Nephrology Conference on Transcriptional Control and Differentiation Phoenix, Arizona, USA June 6-9, 1992; 19920606

ISSN: 1046-6673

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: English

**A differentiation competent renal *mesenchymal* *stem* *cell* *line*:
RSTEM-1**

12/3,K/20 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

11704957 EMBASE No: 2002277894

GATA transcription in a small rhodamine 123SUPlowCD34SUP+ subpopulation of a peripheral blood-derived CD34SUP-CD105SUP+ mesenchymal cell line

Conrad C.; Gottgens B.; Kinston S.; Ellwart J.; Huss R.

Dr. R. Huss, Institute of Pathology, University of Munich, Thalkirchner Str. 36, D-80337 Munich Germany

AUTHOR EMAIL: Ralf.Huss@lrz.uni-muenchen.de

Experimental Hematology (EXP. HEMATOL.) (United States) 2002, 30/8 (887-895)

CODEN: EXHEB ISSN: 0301-472X

PUBLISHER ITEM IDENTIFIER: S0301472X02008652

DOCUMENT TYPE: Journal ; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 60

...SUP+ glial cells could be shown from the entire CD34SUP-CD105SUP+ cell population. Conclusions The findings provide evidence that it is possible to isolate CD34SUP-CD105SUP+ *mesenchymal* *stem* *cell* *lines* from human peripheral blood cells that contain a small subpopulation of CD34SUP+ and GATA-transcribing cells. Those cells are potential hematopoietic progenitors and can be...

12/3,K/21 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE
(c) 2004 Elsevier Science B.V. All rts. reserv.

11685495 EMBASE No: 2002258466

Erratum: The T-box transcription factor Brachyury mediates cartilage development in *mesenchymal* *stem* *cell* *line* C3H10T1/2 (Journal of Cell Science vol. 115 (769-781))

Hoffmann A.; Czichos S.; Kaps C.; Bachner D.; Mayer H.; Kurakalli B.G.; Zilberman Y.; Turgeman G.; Pelled G.; Gross G.; Gazit D.

G. Gross, Osteo-Angiogenesis Group, GBF, Mascheroder Weg 1, 38124 Braunschweig Germany

AUTHOR EMAIL: ggr@gbf.de

Journal of Cell Science (J. CELL SCI.) (United Kingdom) 15 JUN 2002, 115/12 (2613)

CODEN: JNCSCA ISSN: 0021-9533

DOCUMENT TYPE: Journal ; Erratum

LANGUAGE: ENGLISH

Erratum: The T-box transcription factor Brachyury mediates cartilage development in *mesenchymal* *stem* *cell* *line* C3H10T1/2 (Journal of Cell Science vol. 115 (769-781))

12/3,K/22 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2004 Elsevier Science B.V. All rts. reserv.

06851393 EMBASE No: 1997133982

Combination of osteoinductive bone proteins differentiates mesenchymal C2H/10T1/2 cells specifically to the cartilage lineage

Atkinson B.L.; Fantle K.S.; Benedict J.J.; Huffer W.E.; Gutierrez-Hartmann A.

A. Gutierrez-Hartmann, Univ. of Colorado Hlth. Science Ctr., Box B-151, 4200 E. Ninth Ave., Denver, CO 80262 United States

Journal of Cellular Biochemistry (J. CELL. BIOCHEM.) (United States) 1997, 65/3 (325-339)

CODEN: JCCEBD ISSN: 0730-2312

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 62

...formation involves the condensation of mesenchymal stem cells and a series of maturation steps that ultimately results in the mineralized hypertrophic chondrocyte. The embryonic, murine, *mesenchymal* *stem* *cell* *line*, C3H/10T1/2, is pluripotent; exposure to azacytidine or to bone morphogenetic protein-2 or -4 results in low rates of differentiation to three mesengenic...

?ds

Set	Items	Description
S1	6034	CARTILAGE (S) (REPAIR OR REPAIRING OR FORMING)
S2	2248	(BRACHYURY OR (T-BOX) OR (T (W) BOX))
S3	8	S1 AND S2
S4	3	RD (unique items)
S5	10	(BRACHYURY) (S) (CARTILAGE OR (MESENCHYMAL (W) STEM (W) CE-LL))
S6	5	RD (unique items)
S7	3	(BRACHYURY) (S) (CHONDROGENIC OR MSCS)
S8	1	RD (unique items)
S9	2	C3H10T1/2
S10	2	RD (unique items)
S11	43	(MESENCHYMAL (W) STEM (W) CELL (W) LINE?)
S12	22	RD (unique items)

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\$4.20 20 Types

\$7.98 Estimated cost File155

\$7.04 1.257 DialUnits File5

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\$22.79 Estimated cost File5
 \$8.46 0.863 DialUnits File73
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\$19.26 Estimated cost File73
OneSearch, 3 files, 3.300 DialUnits FileOS
\$2.49 TELNET
\$52.52 Estimated cost this search
\$52.87 Estimated total session cost 3.391 DialUnits

Status: Signed Off. (10 minutes)